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CATALOGUE

OF THE

NATIVE PHÆNOGAMOUS PLANTS AND FERNS

OF

KENTUCKY.

by
Charles W. Short M.D.
1874-1863.

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CATALOGUE, &c.

(*Note.*—The following Catalogue is doubtless very incomplete, since it includes only those species which have fallen under the actual observation of three of our botanical friends, Prof. **SHORT**, and Messrs. **PETER** and **GRISWOLD**, who are still diligently extending their researches and daily adding to the number. It is, therefore, offered at the present, as an outline, faithful so far as it goes, of the Botany of Kentucky. The arrangement and the names are those adopted in the 6th Edition of Eaton's Manual.—ED.)

<i>Abies Canadensis</i> ,	<i>Allium tricoccum</i> ,
<i>Acalypha Virginiana</i> ,	" <i>cernuum</i> ,
<i>Acer rubrum</i> ,	" <i>canadense</i> ,
" <i>dasycarpum</i> ,	<i>Alnus serrulata</i> ,
" <i>saccharinum</i> ,	<i>Alyssum dentatum</i> , (<i>Nutt.</i>)
" <i>negundo</i> ,	<i>Amaranthus</i> , 2 or 3 species,
<i>Acerates viridiflora</i> ,	<i>Ambrosia trifida</i> ,
<i>Achillea millifolium</i> ,	" <i>elatior</i> ,
<i>Acnida cannabina</i> ,	<i>Ammannia humilis</i> ,
<i>Acorus calamus</i> ,	<i>Amorpha fruticosa</i> ,
<i>Actæa alba</i> ,	<i>Ampelopsis quinquefolia</i> ,
<i>Actinomeris squarrosa</i> ,	<i>Amphicarpa monoica</i> ,
<i>Adiantum pedatum</i> ,	<i>Amsonia latifolia</i> ,
<i>Æsculus Ohioensis</i> ,	<i>Andromeda arborea</i> ,
" <i>pallida</i> ,	<i>Andropogon scoparium</i> ,
<i>Agave virginica</i> ,	" <i>Virginicum</i> ,
<i>Agrimonia eupatoria</i> ,	" <i>furcatum</i> ,
" <i>parviflora</i> ,	" <i>ciliatum</i> ,
<i>Agrostemma githago</i> ,	<i>Anemone Virginiana</i> ,
<i>Agrostis vulgaris</i> ,	" <i>aconitifolia</i> ,
" <i>lateriflora</i> ,	" <i>nemorosa</i> ,
" <i>clandestina</i> ?	" <i>thalictroides</i> ,
" <i>dispar</i> ?	<i>Anthemis arvensis</i> ,
<i>Alisma plantago</i> ,	" <i>cotula</i> ,

<i>Antirrhinum linaria,</i>	<i>Aplenium ruta-muraria,</i>
<i>Apios tuberosa,</i>	" <i>montanum,</i>
<i>Aplectrum hyemalis,</i>	" <i>melanocaulon,</i>
<i>Apocynum cannabinum,</i>	<i>Aster linarifolius,</i>
" <i>hypericifolium,</i>	" <i>ericoides,</i>
<i>Aquilegia canadensis,</i>	" <i>multiflorus,</i>
<i>Arabis thaliana,</i>	" <i>flexuosus,</i>
" <i>falcata,</i>	" <i>cornifolius,</i>
" <i>rhomboidea,</i>	" <i>humilis,</i>
<i>Aralia spinosa,</i>	" <i>amygdalinus,</i>
" <i>racemosa,</i>	" <i>novæ-angliæ,</i>
<i>Arctium lappa,</i>	" <i>phlogifolius,</i>
<i>Arenaria serpyllifolia,</i>	" <i>diversifolius,</i>
" <i>stricta,</i>	" <i>cordifolius,</i>
<i>Aristolochia serpentaria,</i>	" <i>amplexicaulis,</i>
<i>Aronia botryapium,</i>	" <i>prenanthoides,</i>
" <i>melanocarpa,</i>	" <i>lævis,</i>
<i>Arum dracontium,</i>	" <i>conyzoides,</i>
" <i>triphyllum,</i>	" <i>fragilis,</i>
<i>Asarum canadense,</i>	" <i>Shortii, (Boott.)</i>
<i>Asclepias syriaca,</i>	<i>Astragalus canadensis,</i>
" <i>phytolaccoides,</i>	<i>Atriplex, 1 or 2 species.</i>
" <i>amæna,</i>	<i>Atropa physaloides,</i>
" <i>incarnata,</i>	<i>Azalea nudiflora,</i>
" <i>quadrifolia,</i>	<i>Baptisia cærulea,</i>
" <i>verticillata,</i>	" <i>alba,</i>
" <i>tuberosa,</i>	" <i>tinctoria,</i>
" <i>nivea,</i>	<i>Barbarea vulgaris,</i>
<i>Ascyrum crux-andreæ,</i>	<i>Batschia canescens,</i>
<i>Aspidium acrostichoides,</i>	<i>Bellis integrifolia,</i>
" <i>marginale,</i>	<i>Betula, 2 or 3 species,</i>
" <i>felix-mas,</i>	<i>Bidens cernua,</i>
" <i>bulbiferum,</i>	" <i>chrysanthemoides,</i>
" <i>tenue,</i>	" <i>frondosa,</i>
<i>Aplenium rhyzophyllum,</i>	" <i>bipinnata,</i>
" <i>angustifolium,</i>	<i>Bignonia radicans,</i>
" <i>ebenum,</i>	" <i>crucigera,</i>
" <i>thelypteroides,</i>	<i>Bæhmeria lateriflora,</i>

<i>Botrychium obliquum</i> ,	<i>Cephalanthus occidentalis</i> ,
" <i>virginicum</i> ,	<i>Cerastium hirsutum</i> ,
<i>Bromus secalinus</i> ,	" <i>vulgatum</i> ,
<i>Cacalia atriplicifolia</i> ,	" <i>glutinosum</i> , (<i>Nutt.</i>)
" <i>suaveolens</i> ,	" <i>arvense</i> ,
<i>Cactus opuntia</i> ,	<i>Cercis canadensis</i> ,
<i>Callitriche verna</i> ,	<i>Ceresia fluitans</i> ,
<i>Caltha palustris</i> ,	<i>Chelone glabra</i> ,
<i>Campanula amplexicaulis</i> ,	<i>Chenopodium hybridum</i> ,
" <i>acuminata</i> ,	" <i>album & v. viride</i> ,
<i>Capraria multifida</i> ,	" <i>botrys</i> ,
<i>Cardamine rotundifolia</i> ,	" <i>anthelminticum</i> ,
" <i>pennsylvanica</i> ,	<i>Chimaphila maculata</i> ,
" <i>uniflora</i> ,	" <i>umbellata</i> ,
<i>Carex multiflora</i> ,	<i>Chionanthus virginica</i> ,
" <i>lupulina</i> ,	<i>Chrysopsis mariana</i> ,
" <i>digitalis</i> ,	<i>Cicuta maculata</i> ,
" <i>retrorsa</i> ,	<i>Cinna arundinacea</i> ,
with several other species,	<i>Circæa lutetiana</i> ,
<i>Carpinus americana</i> ,	<i>Claytonia virginica</i> , (2 vars.)
<i>Carya alba</i> ,	<i>Clematis virginica</i> ,
" <i>sulcata</i> ,	" <i>reticulata</i> ,
" <i>amara</i> ,	<i>Cleome dodecandra</i> ,
" <i>porcina</i> ,	<i>Cnicus lanceolatus</i> ,
" <i>olivæformis</i> ,	" <i>altissimus</i> ,
<i>Cassia marylandica</i> ,	" <i>discolor</i> ,
" <i>chamæcrista</i> ,	" <i>virginianus</i> ,
" <i>nictitans</i> ,	<i>Collinsia verna</i> ,
" <i>tora</i> ,	<i>Collinsonia canadensis</i> ,
" <i>aspera</i> ,	<i>Commelina communis</i> ,
<i>Castanea vesca</i> ,	" <i>virginica</i> ,
" <i>pumila</i> ,	<i>Conium maculatum</i> ,
<i>Catalpa cordifolia</i> ,	<i>Convallaria racemosa</i> ,
<i>Caulophyllum thalictroides</i> ,	" <i>multiflora</i> ,
<i>Ceanothus americana</i> ,	<i>Convolvulus repens</i> ,
<i>Celastrus scandens</i> ,	" <i>arvensis</i> ,
<i>Celtis crassifolia</i> ,	" <i>panduratus</i> ,
" <i>pumila</i> ,	" <i>spithameus</i> ,

<i>Convolvulus machrorhizus</i> ,	<i>Decodon verticillatum</i> ,
<i>Conyza camphorata</i> ,	<i>Delphinium tricorne</i> ,
<i>Corallorhiza odontorhiza</i> ,	" <i>exaltatum</i> ?
<i>Coreopsis trichosperma</i> ,	<i>Dentaria diphylla</i> ,
" <i>tripteris</i> ,	" <i>laciniata</i> ,
" <i>auriculata</i> ,	" <i>heterophylla</i> ,
" <i>senifolia</i> ,	<i>Diclytra cucullaria</i> ,
<i>Cornus florida</i> ,	" <i>canadensis</i> ,
" <i>sericea</i> ,	<i>Digitaria sanguinalis</i> ,
" <i>alba</i> ,	<i>Dioscorea villosa</i> ,
<i>Corydalis aurea</i> ,	<i>Diospyros virginiana</i> ,
<i>Corylus americana</i> ,	<i>Dipsacus sylvestris</i> ,
<i>Cratægus coccinea</i> ,	<i>Dirca palustris</i> ,
" <i>crus-galli</i> ,	<i>Dodecatheon meadia</i> ,
" <i>populifolia</i> ,	<i>Dracocephalum virginianum</i> ,
" several others species,	" <i>denticulatum</i> ,
<i>Croton capitatum</i> ,	" <i>cordatum</i> ,
<i>Cucubalus stellatus</i> ,	<i>Drosera longifolia</i> ,
<i>Cunila mariana</i> ,	" <i>rotundifolia</i> ,
<i>Cuphea viscosissima</i> ,	<i>Dulichium spathaceum</i> ,
<i>Cupressus disticha</i> ,	<i>Eclipta procumbens</i> ,
<i>Cuscuta americana</i> ,	<i>Elephantopus carolinianus</i> .
<i>Calopogon pulchellum</i> ,	<i>Eleusine indica</i> ,
<i>Cynoglossum officinale</i> ,	" <i>mucronata</i> ?
" <i>amplexicaule</i> ,	<i>Elymus canadensis</i> ,
<i>Cyperus flavescent</i> ,	" <i>villosus</i> ,
" <i>inflexus</i> ,	" <i>hystrix</i> ,
" <i>phymatodes</i> ,	<i>Elodea petiolata</i> ,
" <i>strigosus</i> ,	<i>Enslenia albida</i> ,
" others undetermined,	<i>Epigæa repens</i> ,
<i>Cypripedium pubescens</i> ,	<i>Epilobium coloratum</i> ,
" <i>parviflorum</i> ,	<i>Epiphegus virginianus</i> ,
" <i>spectabile</i> ,	<i>Equisetum arvense</i> ,
" <i>acaule</i> ,	" <i>hyemale</i> ,
<i>Dactylis glomerata</i> ,	<i>Erigeron bellidifolium</i> ,
<i>Danthonia spicata</i> ,	" <i>purpureum</i> ,
<i>Datura stramonium</i> ,	" <i>philadelphicum</i> ,
" <i>tatula</i> ,	" <i>strigosum</i> ,

<i>Erigeron canadense</i> ,	<i>Galium aparine</i> ,
<i>Erigenia bulbosa</i> ,	" <i>circæans</i> ,
<i>Erysimum palustre</i> ,	" <i>boreale</i> ,
<i>Erythronium americanum</i> ,	<i>Gaultheria procumbens</i> ,
" <i>albidum</i> ,	<i>Guara biennis</i> ,
<i>Euchroma coccinea</i> ,	<i>Gentiana saponaria</i> ,
<i>Euonymus atropurpureus</i> ,	" <i>ocroleuca</i> ,
" <i>americanus</i> ,	" <i>quinqueflora</i> ,
" <i>obovatus</i> ,	<i>Geranium maculatum</i> ,
<i>Eupatorium sessilifolium</i> ,	<i>Gerardia flava</i> ,
" <i>purpureum</i> ,	" <i>pedicularia</i> ,
" <i>verticillatum</i> ,	" <i>purpurea</i> ,
" <i>perfoliatum</i> ,	" <i>tenuifolia</i> ,
" <i>caelestinum</i> ,	" <i>quercifolia</i> ,
" <i>ageratoides</i> ,	<i>Geum virginianum</i> ,
" <i>glaucescens</i> ?	<i>Gillenia stipulacea</i> ,
<i>Euphorbia corollata</i> ,	<i>Glechoma hederacea</i> ,
" <i>peplus</i> ,	<i>Gleditschia triacanthos</i> ,
" <i>hypericifolia</i> ,	<i>Gnaphalium polycephalum</i> ,
" <i>maculata</i> ,	" <i>plantagineum</i> ,
" <i>thymifolia</i> ,	" <i>purpureum</i> ,
<i>Fagus sylvatica</i> ,	" <i>uliginosum</i> ,
<i>Fedia radiata</i> ,	<i>Gonolobus hirsutus</i> ,
<i>Festuca elatior</i> ,	<i>Goodyera pubescens</i> ,
" <i>pratensis</i> ,	<i>Gratiola virginica</i> ,
<i>Flærkea uliginosa</i> ,	<i>Gymnocladus canadensis</i> ,
<i>Fragaria virginiana</i> ,	<i>Gyromia virginica</i> ,
" <i>canadensis</i> ,	<i>Habenaria ciliaris</i> ,
<i>Frasera verticillata</i> ,	" <i>fimbriata</i> ,
<i>Fraxinus quadrangulata</i> ,	<i>Hamamelis virginica</i> ,
" <i>acuminata</i> ,	<i>Hedyoma pulegioides</i> ,
" <i>sambucifolia</i> ,	<i>Hedyotis glomerata</i> ?
<i>Galardia bicolor</i> ,	<i>Hedysarum canadense</i> ,
<i>Galega virginiana</i> ,	" <i>viridiflorum</i> ,
" <i>hispidula</i> ?	" <i>Aikinii</i> ?
<i>Galium trifidum</i> ,	" <i>rotundifolium</i> ,
" <i>tinctorium</i> ,	" <i>nudiflorum</i> ,
" <i>asprellum</i> ,	" <i>glutinosum</i> ,

Hedysarum acuminatum,	Hydrophyllum virginicum,
" pauciflorum,	Hypericum prolificum,
others undetermined.	" perforatum,
Helenium autumnale,	" corymbosum,
Helianthus trachelifolius,	" parviflorum,
" decapetalus,	others, undetermined.
" altissimus?	Hypopithys lanuginosa,
" pubescens,	Hypoxis erecta,
" frondosus,	Hyssopus nepetoides,
others, undetermined.	" scrophularifolius,
Heliopsis lævis,	Ilex opaca,
Heliotropium indicum,	Impatiens pallida,
Helonias diocia,	" fulva,
Hepatica acutiloba,	Inula helenium,
Heracleum lanatum,	Ionidium concolor,
Hesperis pinnatifida,	Ipomæa, several species,
Heteranthera reniformis,	Iresine celosioides?
Heuchera americana,	Iris versicolor,
" pubescens,	" cristata,
" caulescens,	" verna,
" acerifolia, (Raf.)	Isopyrum thalyctroides,
Hibiscus moscheutos,	Isanthus cœruleus,
" militaris,	Isnardia palustris,
Hieracium venosum,	Jeffersonia diphylla,
" gronovii,	Juglans nigra,
" paniculatum,	" cinerea,
Hippuris vulgaris,	Juncus effusus,
Hottonia inflata,	" tenuis,
Houstonia cœrulea,	" others, undetermined,
" longifolia,	Juniperus virginiana,
" purpurea,	Justicia pedunculosa,
Humulus lupulus,	Kalmia latifolia,
Hydrangea cordata,	Krigia amplexicaulis,
" vulgaris,	Kyllingia pumila,
Hydrastis canadensis,	Lactuca elongata,
Hydropehtis purpurea,	Lamium amplexicaule,
Hydrophyllum appendiculatum	Laurus benzoin,
" canadense,	" sassafras,

<i>Lechea major</i> ,	<i>Lycopus europeus</i> ,
“ <i>minor</i> ,	“ <i>virginicus</i> ,
“ <i>racemulosa</i> ,	<i>Lysimachia quadrifolia</i> ,
<i>Leersia virginica</i> ,	“ <i>ciliata</i> ,
“ <i>oryzoides</i> .	“ <i>hybrida</i> ,
<i>Lemna minor</i> ,	“ <i>quadriflora</i> ?
“ <i>trisulca</i> ,	<i>Lythrum hyssopifolium</i> ,
<i>Leontodon taraxacum</i> ,	<i>Macrotrys racemosa</i> ,
<i>Leonurus cardiaca</i> ,	<i>Magnolia tripetala</i> ,
<i>Lepidium virginicum</i> ,	“ <i>macrophylla</i> ,
<i>Leptandra virginica</i> ,	“ <i>cordata</i> ,
<i>Lespedeza capitata</i> ,	“ <i>ariculata</i> ,
“ <i>violacea</i> ,	<i>Malaxis liliifolia</i> ,
“ <i>procumbens</i> ,	<i>Malva rotundifolia</i> ,
“ <i>prostrata</i> ,	<i>Marrubium vulgare</i> ,
<i>Liatris squarrosa</i> ,	<i>Martynia proboscidea</i> ,
“ <i>spicata</i> ,	<i>Meconopsis peteolata</i> ,
“ <i>graminifolia</i> ,	<i>Melica speciosa</i> ,
<i>Lilium canadense</i> ,	<i>Menispermum canadense</i> ,
“ <i>superbum</i> ,	“ <i>smilacinum</i> ?
“ <i>Catesbei</i> ,	<i>Mentha tenuis</i> ,
<i>Lindernia dilatata</i> ,	“ <i>borealis</i> ,
“ <i>attenuata</i> ,	“ <i>viridis</i> ,
<i>Linum virginianum</i> ,	<i>Miegia macrosperma</i> ,
<i>Liquidambar styraciflua</i> ,	<i>Mikania scandens</i> ,
<i>Liriodendron tulipifera</i> ,	<i>Mimulus alatus</i> ,
<i>Lithospermum arvense</i> ,	“ <i>ringens</i> ,
“ <i>latifolium</i> ,	<i>Mitchella repens</i> ,
<i>Lobelia cardinalis</i> ,	<i>Mitella diphylla</i> ,
“ <i>syphilitica</i> ,	<i>Mollugo verticillata</i> ,
“ <i>inflata</i> ,	<i>Monarda oblongata</i> ,
“ <i>Claytoniana</i> ,	“ <i>fistulosa</i> ,
“ <i>puberula</i> ,	“ <i>hirsuta</i> ,
<i>Lonicera parviflora</i> ,	“ <i>ciliata</i> ,
<i>Ludwigia alternifolia</i> ,	<i>Monotropa uniflora</i> ,
<i>Luzula</i> ?	<i>Morus rubra</i> ,
<i>Lycopodium complanatum</i> ,	<i>Muhlenbergia diffusa</i> ,
and others.	“ <i>erecta</i> ,

Myosotis arvensis,	Parietaria pennsylvanica,
Myosurus Shortii, (<i>Raff.</i>)	Paspalum ciliatifolium,
Nelumbium luteum,	“ plicatulum,
Neottia tortilis,	Passiflora, lutea,
Nepeta cataria,	“ incarnata,
Nuphar advena,	Pedicularis canadensis,
Nyssa aquatica,	“ pallida,
“ tomentosa,	Penthorum sedoides,
Obolaria virginica,	Penstemon pubescens,
Oenothera biennis,	“ lævigatum,
“ muricata,	Petalostemon candidum,
“ grandiflora,	“ violaceum,
“ tetragona?	Phacelia bipinnatifida,
others, undetermined.	“ fimbriata,
Onoclea sensibilis,	“ heterophylla,
Onosmodium hispidum,	Phalangium esculentum,
“ molle,	Phaseolus perennis,
Ophioglossum vulgatum,	Phlox paniculata,
“ bulbosum,	“ pyramidalis,
Orchis spectabilis,	“ maculata,
“ tridentata,	“ aristata,
Orobanche uniflora,	“ pilosa,
“ americana,	“ divaricata,
Osmunda regalis,	“ reptans,
Ostrya virginica,	“ subulata,
Oxalis violacea,	“ setacea,
“ stricta,	“ cordata,
“ corniculata?	Phryma leptostachya,
Pachysandra procumbens,	Physalis viscosa,
Panax quinquefolia,	“ obscura,
Pancratium rotatum,	“ pennsylvanica,
Panicum crus-galli,	Phytolacca decandra
“ clandestinum,	Pinus inops,
“ latifolium,	“ alba,
“ dichotomum,	Piptatherum nigrum,
“ nitidum,	Plantago major,
“ capillare,	“ lanceolata,
“ virgatum,	“ virginica,

<i>Plantago cordata</i> ,	<i>Pontederia angustifolia</i> ,
<i>Platanus occidentalis</i> ,	<i>Populus tremuloides</i> ,
<i>Poa pratensis</i> ,	" <i>candicans</i> ,
" <i>annua</i> ,	" <i>laevigata</i> ,
" <i>trivialis</i> ,	<i>Porcelia triloba</i> ,
" <i>compressa</i> ,	<i>Portulacca oleracea</i> ,
" <i>nervata</i> ,	<i>Potamogeton natans</i> ,
" <i>capillaris</i> ?	" <i>lucens</i> ,
" <i>reptans</i> ,	" <i>acutifolium</i> ,
" <i>eragrostis</i> ,	" <i>gramineum</i> ,
<i>Podophyllum peltatum</i> ,	<i>Potentilla canadensis</i> ,
<i>Podostemum ceratophyllum</i> ,	<i>Prenanthes alba</i> ,
<i>Podostigma viridis</i> ,	" <i>serpentaria</i> ,
<i>Pogonia ophioglossoides</i> ,	" <i>crepidinea</i> ,
" <i>verticillata</i> ,	" <i>deltoidea</i> ,
<i>Polemonium reptans</i> ,	<i>Proserpinaca palustris</i> ,
<i>Polygala incarnata</i> ,	<i>Prunella vulgaris</i> ,
" <i>senega</i> ,	<i>Prunus pennsylvanica</i> ,
" <i>purpurea</i> ,	" <i>virginiana</i> ,
" <i>verticillata</i> ,	" <i>serotina</i> ,
" <i>setacea</i> ,	" <i>chicasa</i> ,
<i>Polygonum aviculare</i> ,	" <i>depressa</i> ,
" <i>erectum</i> ,	<i>Psoralea eglandulosa</i> ,
" <i>punctatum</i> ,	<i>Ptelea trifoliata</i> ,
" <i>virginianum</i> ,	<i>Pteris aquilina</i> ,
" <i>persicaria</i> ,	" <i>atropurpurea</i> ,
" <i>pennsylvanicum</i> ,	<i>Pulmonaria virginica</i> ,
" <i>amphibium</i> ,	<i>Pycnanthemum incanum</i> ,
" <i>sagittatum</i> ,	" <i>linifolium</i> ,
" <i>hastatum</i> ,	" <i>lanceolatum</i> ,
" <i>arifolium</i> ,	<i>Pyrus coronaria</i> ,
" <i>scandens</i> ,	<i>Quercus phellos</i> ,
<i>Polymnia canadensis</i> ,	" <i>imbricaria</i> ,
" <i>rupestris</i> ,	" <i>ferruginea</i> ,
<i>Polypodium vulgare</i> ,	" <i>tinctoria</i> ,
" <i>hexagonopterum</i> ,	" <i>falcata</i> ,
" <i>incanum</i> ,	" <i>palustris</i> ,
<i>Pontederia cordata</i> ,	" <i>obtusiloba</i> .

<i>Quercus macrocarpa</i> ,	<i>Rudbeckia laciniata</i> ,
" <i>alba</i> ,	" <i>pinnata</i> ,
" <i>castanea</i> ,	<i>Ruellia stepens</i> ,
" <i>pumila</i> ,	<i>Rumex crispus</i> ,
<i>Queria canadensis</i> ,	" <i>acetosellus</i> ,
<i>Ranunculus flammulus</i> ,	" <i>persicarioides</i> ,
" <i>abortivus</i> ,	" others undetermined,
" <i>sceleratus</i> ,	<i>Sabbatia angularis</i> ,
" <i>fascicularis</i> ,	" <i>gracilis</i> ,
" <i>recurvatus</i> ,	<i>Sagittaria sagittifolia</i> ,
" <i>fluvialis</i> ,	" <i>pusilla</i> ,
" <i>lacustris</i> ,	<i>Salix</i> , several species not deter.
" <i>nitidus</i> ,	<i>Salvia lyrata</i> ,
<i>Rhamnus carolinianus</i> ,	<i>Sambucus canadensis</i> ,
" <i>lanceolatus</i> ,	<i>Samolus valerandi</i> ,
<i>Rhexia mariana</i> ,	<i>Sanguinaria canadensis</i> ,
" <i>virginica</i> ,	<i>Sanicula marylandica</i> .
<i>Rhododendron maximum</i> ,	<i>Saponaria officinalis</i> ,
<i>Rhus glabrum</i> ,	<i>Sarothra gentianoides</i> ,
" <i>copallinum</i> ,	<i>Saururus cernuus</i> ,
" <i>toxicodendron</i> ,	<i>Saxifraga virginensis</i> ,
" <i>aromaticum</i> ,	<i>Schollera graminifolia</i> ,
<i>Rhyncospora</i> , 1 or 2 species,	<i>Scirpus tenuis</i> ,
<i>Ribes conosbati</i> ,	" <i>autumnalis</i> ,
" <i>floridum</i> ,	" <i>palustris</i> ,
<i>Robinia pseudo-acacia</i> ,	" <i>capitatus</i> ,
<i>Rochelia virginica</i> ,	" <i>americanus</i> ,
<i>Rosa parviflora</i> ,	" <i>atrovirens</i> ,
" <i>rubiginosa</i> ,	" <i>brunneus</i> ,
" others undetermined,	" <i>eriphorum</i> ,
<i>Rubus ideus</i> ,	<i>Scrophularia marylandica</i> ,
" <i>villosus</i> ,	<i>Scutellaria lateriflora</i> ,
" <i>occidentalis</i> ,	" <i>galericulata</i> ,
" <i>trivialis</i> ,	" <i>parvula</i> ,
" <i>odoratus</i> ,	" <i>canescens</i> ,
<i>Rudbeckia purpurea</i> ,	" <i>cordifolia</i> ,
" <i>hirta</i> ,	" <i>ovalifolia</i> ,
" <i>triloba</i> ,	" <i>gracilis</i> ,

<i>Scutellaria ambigua</i> ,	<i>Sparganium americanum</i> ,
<i>Sedum ternatum</i> ,	<i>Spermacoce diodina</i> ,
" <i>pulchellum</i> ,	" <i>glabra</i> ?
<i>Senecio obovatus</i> ,	<i>Spigelia marylandica</i> ,
" <i>balsamitæ</i> ,	<i>Spiræa salicifolia</i> ,
<i>Seymeria pectinata</i> ,	" <i>tomentosa</i> ,
<i>Sicyos angulata</i> ,	" <i>corymbosa</i> ,
<i>Sida spinosa</i> ,	" <i>opulifolia</i> ,
" <i>abutilon</i> ,	" <i>aruncus</i> ,
<i>Silene pennsylvanica</i> ,	" <i>betulifolia</i> ,
" <i>virginica</i> ,	<i>Stachys aspera</i> ,
" <i>regia</i> ,	<i>Staphylea trifolia</i> ,
" <i>rotundifolia</i> ,	<i>Stellaria media</i> ,
<i>Silphium perfoliatum</i> ,	" <i>pubera</i> ,
" <i>terebinthinaceum</i> ,	<i>Streptopus lanuginosus</i> ,
<i>Sison trifolius</i> ,	<i>Stylosanthes elatior</i> ,
<i>Sisyrinchium anceps</i> ,	<i>Symphoria racemosa</i> ,
" <i>mucronatum</i> ,	" <i>glomerata</i> ,
<i>Smilax rotundifolia</i> ,	<i>Synandra grandiflora</i> ,
" <i>peduncularis</i> ,	<i>Teucrium canadense</i> ,
" <i>herbacea</i> ,	<i>Thalictrum doicum</i> ,
" <i>bona nox</i> ,	" <i>corynellum</i> ,
" <i>others undetermined</i> ,	" <i>ranunculinum</i> ,
<i>Solanum dulcamara</i> ,	<i>Thesium umbellatum</i> ,
" <i>nigrum</i> ,	<i>Thlaspi bursa-pastoris</i> ,
" <i>carolinense</i> ,	<i>Thuya occidentalis</i> ,
<i>Solidago canadensis</i> ,	<i>Tiarella cordifolia</i> ,
" <i>nemoralis</i> ,	<i>Tilia pubescens</i> ,
" <i>odora</i> ,	" <i>americana</i> ,
" <i>bicolor</i> ,	<i>Tipularia discolor</i> ,
" <i>graminifolia</i> ,	<i>Tradescantia virginica</i> ,
" <i>cæsia</i> ,	" <i>rosea</i> ,
" <i>flexicaulis</i> ,	<i>Tricodium laxiflorum</i> ,
" <i>latifolia</i> ,	" <i>scabrum</i> ,
" <i>axillaris</i> ,	<i>Trichostema dichotoma</i> ,
<i>Sonchus oleraceus</i> ,	<i>Trifolium reflexum</i> ,
" <i>spinulosus</i> ,	" <i>repens</i> ,
" <i>ludovicianus</i> ,	" <i>pratense</i> ,

Trifolium procumbens,	Verbesina siegesbeckia,
“ stoloniferum,	Vernonia noveboracensis,
Trillium sessile,	Veronica serpyllifolia,
„ pendulum,	“ anagallis,
“ erectum,	“ arvensis,
“ grandiflorum,	“ agrestis,
“ cernuum,	“ peregrina,
“ pictum,	Vexillaria virginiana,
Triosteum perfoliatum,	Viburnum prunifolium,
Triphora pendula,	“ lentago,
Troximon virginicum,	“ dentatum,
Turritis glabra,	“ pubescens,
Typha latifolia,	“ acerifolium,
Ulmus americana,	Vicia cracca,
“ fulva,	Viola cucullata,
“ alata,	“ affinis,
Uniola latifolia,	“ palmata,
Uraspermum claytoni,	“ sororia,
“ hirsutum,	“ sagittata,
Urtica pumila,	“ amœna,
“ urens,	“ blanda,
“ dioica,	“ primulifolia,
“ canadensis,	“ lanceolata,
Utricularia macrorhiza,	“ pedata,
Uvularia perfoliata,	“ canadensis,
“ sessilifolia,	“ rostrata,
“ grandiflora,	“ Muhlenbergiana,
Vaccinium stamineum,	“ striata,
“ resinosum,	“ pubescens,
“ corymbosum,	“ heterophylla?
“ frondosum,	Virgilia lutea,
Valeriana pauciflora,	Viscum verticillatum,
Vallisneria spiralis,	Vitis lubrusca,
Verbascum thapsus,	“ cordifolia,
“ blattaria,	Windsoria seslerioides,
Verbena hastata,	Xanthium strumarium,
“ urticifolia,	Xyris flexuosa,
“ augustifolia,	Zanthoxylum fraxineum,
“ bracteosa,	Zapania nodiflora.





ART. VIII.—A Supplementary Catalogue of the Plants of Kentucky. By PROFESSORS SHORT and PETER.

[NOTE.—In the "Catalogue of the Plants of Kentucky" published in the 6th vol. of the Transylvania Journal of Medicine, &c., it was suggested that the number of species therein contained fell far short of the entire amount embraced by the Flora of Kentucky. We now append to that list the following additions and corrections made during the past season; still inserting none which have not fallen under our own observation.]

I. ADDITIONS.

- | | |
|------------------------------------|-------------------------------------|
| <i>Actæa palmata,</i> | <i>Cardamine ludoviciana, Hook,</i> |
| <i>Acer nigrum,</i> | <i>Cocculus Carolinianus,</i> |
| <i>Andromeda paniculata,</i> | <i>Cuscuta glabella,</i> |
| <i>Archemora rigida,</i> | <i>Cyperus Nuttallii,</i> |
| <i>Agrimonia suaveolens,</i> | <i>Digitaria filiformis,</i> |
| <i>Agrostis tenuiflora,</i> | <i>Echium vulgare,</i> |
| <i>Arrhenatherum Kentuckiense,</i> | <i>Eupatorium ovatum, Bie.</i> |
| <i>Aristida ?</i> | " <i>rupestre, Rafn.</i> |
| <i>Asclepias variegata,</i> | <i>Festuca nutans,</i> |
| <i>Aster Carolinianus,</i> | " <i>tenella,</i> |
| " <i>Novi Belgii,</i> | <i>Gentiana Catesbæi,</i> |
| " <i>diffusus,</i> | <i>Gonolobus macropayllus?</i> |
| " <i>divergens,</i> | <i>Glyceria fluitans,</i> |
| " <i>multiflorus,</i> | <i>Hecysarum paniculatum,</i> |
| " <i>miser,</i> | " <i>scaberrimum,</i> |
| <i>Bidens comosa, Hooker,</i> | " <i>cuspidatum,</i> |
| <i>Bletia aphylla,</i> | " <i>bracteosum,</i> |
| <i>Boehmeria cylindrica,</i> | " <i>Marylandicum.</i> |
| <i>Bromus Canadensis,</i> | " <i>obtusum?</i> |
| " <i>pubescens,</i> | <i>Houstonia ciliolata,</i> |
| " <i>mollis?</i> | <i>Hordeum pusillum,</i> |
| <i>Botrychium dissectum,</i> | <i>Hypopeltis obtusa,</i> |
| <i>Carex alba,</i> | <i>Kæleria truncata,</i> |
| " <i>anceps,</i> | " <i>Pennsylvanica,</i> |
| " <i>Willdenovii,</i> | <i>Lemania fluviatilis,</i> |
| " <i>varia,</i> | <i>Leptanthus ovalis,</i> |
| " <i>Muhlenbergii,</i> | <i>Lycopodium dendroideum.</i> |
| " <i>folliculata,</i> | <i>Malaxis ophioglossoides,</i> |
| " <i>acuta,</i> | <i>Melica diffusa.</i> |
| " <i>hirsuta,</i> | <i>Oenothera Fraseri,</i> |
| " <i>pubescens?</i> | " <i>fruticosa,</i> |
| " <i>sericea?</i> | <i>Oxydenia attenuata,</i> |
| " <i>pellita?</i> | <i>Panax trifolium,</i> |
| " <i>gonularis?</i> | <i>Panicum proserpinacoides,</i> |
| " <i>multiflora?</i> | " <i>agrostoides,</i> |
| " <i>stipata?</i> | <i>Pilea glaberrima.</i> |
| " <i>hystericina?</i> | <i>Poa multicaulis, Torrey.</i> |
| " <i>gracillima?</i> | " <i>pectinacea,</i> |
| " <i>stellulata?</i> | " <i>parviflora,</i> |

<i>Poa pungens</i> ,	<i>Spartina cynosuroides</i> ,
<i>Polygonum lapathifolium</i> ,	<i>Stachys sylvatica</i> ,
<i>Potamogeton compressum</i> ,	<i>Strophostyles angulosa</i> ,
<i>Polypodium connectile</i> ,	“ <i>peduncularis</i> ,
<i>Prunus obovatus</i> ,	<i>Stylipus verna</i> , <i>Rafin.</i>
<i>Psoralea onobrychis</i> ,	<i>Solidago</i> * <i>cordata</i> ,
<i>Quercus chinquapin</i> ,	“ <i>serotina</i> ,
<i>Rosa corymbosa</i> ,	“ <i>rupestris</i> , <i>Rafin.</i>
“ <i>rubifolia</i> ,	<i>Tragia macrocarpa</i> ,
<i>Ranunculus pusillus</i> ,	<i>Triosteum angustifolium</i> ,
<i>Rhynchospora glomerata</i> ,	<i>Uniola gracilis</i> ,
“ <i>lata</i> ,	<i>Uraspermum procumbens</i> ,
<i>Sagina</i> * <i>fontinalis</i> ,	“ <i>Canadense</i> ,
<i>Sagittaria obtusa</i> ,	<i>Udora Canadensis</i> ,
<i>Scirpus triquetar</i> ,	<i>Veratrum angustifolium</i> ,
“ <i>lacustris</i> ,	<i>Violatenella</i> ,
<i>Senecio hieracifolius</i> ,	<i>Veronica scutellata</i> ,
“ <i>aureus</i> ,	<i>Zizia cordata</i> ,
<i>Seymeria macrophylla</i> ,	“ <i>integerrima</i> ,
<i>Sisymbrium canescens</i> ,	

II. CORRECTIONS.

<i>Alyssum dentatum</i> , <i>Nutt.</i> of the former Catalogue, is the <i>Draba dentata</i> ,	
<i>Asclepias nivea</i> ,	is the <i>Asclepias variegata</i> , [<i>Hook.</i>
<i>Agrimonia parviflora</i> ,	“ “ <i>Agrimonia suaveolens</i> ,
<i>Aster fragilis</i> ,	“ “ <i>Aster Carolinianus</i> ,
<i>Clematis reticulata</i> ,	“ “ <i>Clematis viorna</i> ,
<i>Dracocephalum denticulatum</i> ,	“ “ <i>Dracocephalum variegatum</i> ,
<i>Eupatorium glaucescens</i> ?	“ “ <i>Eupatorium rupestre</i> , <i>Rafin</i>
<i>Hedyotis glomerata</i> ?	“ “ <i>Spermacoce glabra</i> ,
<i>Luzula</i> ———?	“ “ <i>Luzula campestris</i> ,
<i>Menispermum smilacinum</i> ?	“ “ <i>Coculus Carolinianus</i> ,
<i>Thalictrum ranunculinum</i> ,	“ “ <i>Actæa palmata</i> .

III. DESCRIPTIONS AND OBSERVATIONS.

Solidago **cordata*. Stem striated, pubescent; lower leaves petiolate, cordate, sharply and irregularly serrate, acute, upper ones ovate, gradually becoming sessile and entire, radical leaves, broad cordate and serrate; spikes axillary and terminal, densely flowered; folioles of the perianth lanceolate, obtuse, adpressed.

Stem erect, generally purple, often branching at the summit with a few lax, divaricate branches; leaves scabrous beneath; flowers small, of a bright golden yellow colour; ligules about half the length of the cylindrical light-green perianth. Perennial; flowers from August to October, grows from two to four feet in height.

Hab. On the steep, wooded, hill-sides, on the banks of the Kentucky river; where large patches of its broad cordate radical leaves are very conspicuous at most seasons. This species has some agreements with the

description of *S. sphacelata* (Raf.), but it differs in having no sphacelations on the foliodes of the perianth, as well as in the colour of the flowers, those of *S. sphacelata* being "of a dirty brownish yellow," and in its broad cordate, serrate leaves, which are from two to four inches long. Even should the present species be the one intended by that author, we consider the name now proposed decidedly preferable to his, since it has reference to a somewhat peculiar character always present, instead of "a desperate microscopical one," not to be met with in healthy perfect specimens.

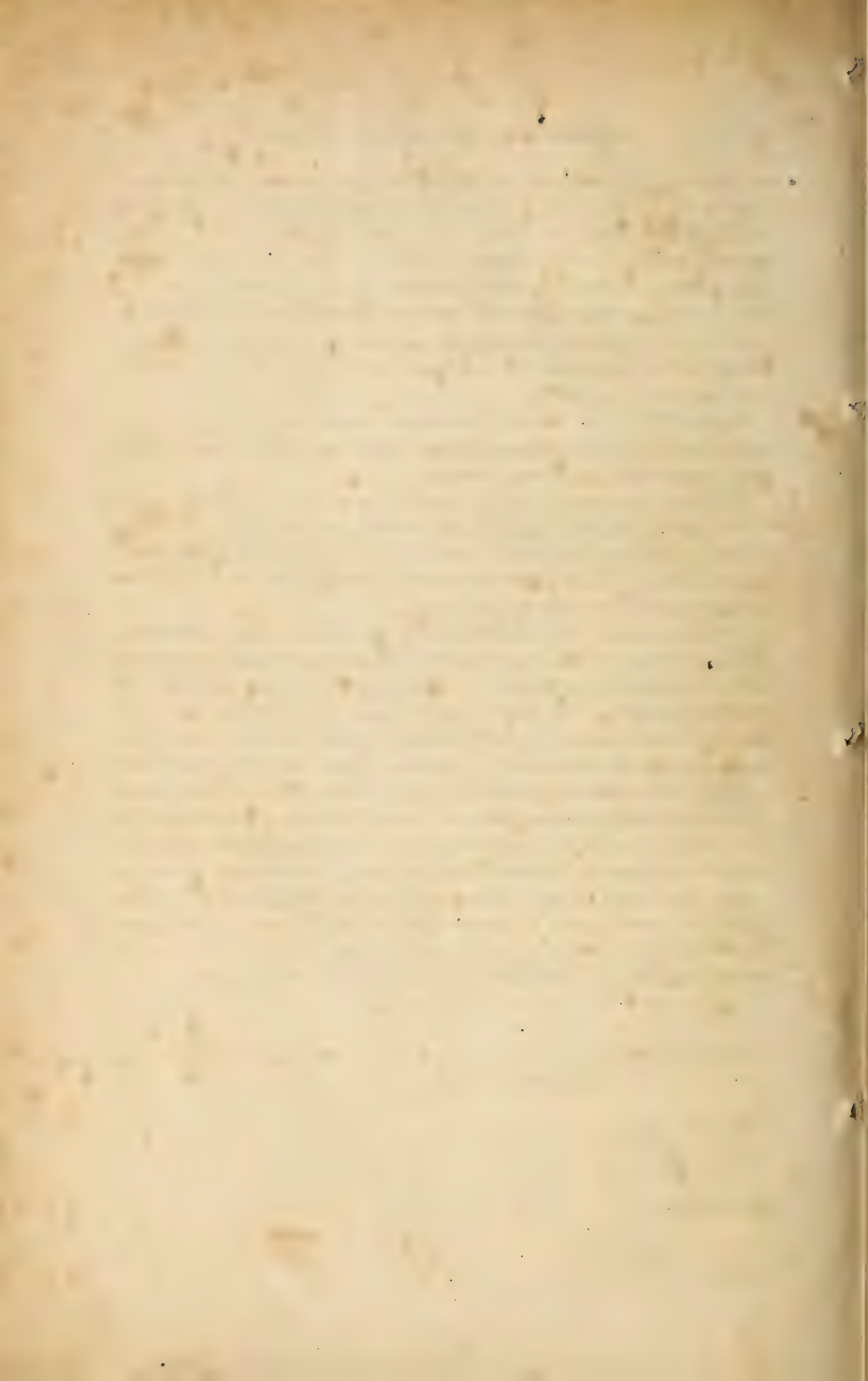
*Sagina *fontinalis*. Stem procumbent, branching, dichotomous above; leaves opposite, linear-spatulate, entire; pedicels solitary, alternate, longer than the leaves. Annual.

Glabrous, apetalous; calyx 4-5 leaved; sepals ovate, obtuse; stamens 4 to 6; capsule somewhat 4-sided, one-celled, many-seeded.

Hab. On the cliffs of the Kentucky river and Elkhorn creek; forming mats in wet places where the water of springs flows over. Flowers in April and May; stems 8-15 inches long.

Cunila glabella. This is undoubtedly the original plant of Michaux: and it agrees much better with his description than do specimens which under the synonymous name of *Hedeoma glabra* we have received from the Niagara falls. Our plant is usually from 1 to 2 feet high; its larger leaves 2 inches long by $\frac{3}{4}$ broad, coarsely serrate towards the apex, attenuated at base, and distinctly petioled; whorls from 3 to 15 flowered.

Hab. We have only found this plant in one locality, on the borders of a rivulet emptying into Elkhorn, at the Forks near Frankfort, Ky. At this point in rich soil among fragments of limestone, (a locality altogether analogous to Michaux's original one,) it occurs in great abundance, flowering in June. From an accurate comparison of the two plants we are compelled to believe that the New York species is distinct from the present—and we prefer for our plant the name given by Michaux, although our specimens were all distinctly didynamous.



A SECOND
SUPPLEMENTARY CATALOGUE,
OF THE
PLANTS OF KENTUCKY.

[From the *Transylvania Journal of Medicine*, &c., No. XXXII.]

During the past season of 1835 our attention has still been directed to an examination of the plants of Kentucky, and we are now enabled to add nearly two hundred species to the number contained in our preceding catalogues, published in the XXIV and XXVIII numbers of this Journal. To this addition many species have been contributed by our friend Mr. Griswold from the immediate neighbourhood of Louisville, his present residence—a locality especially rich in paludal and aquatic plants; and a few have been added from the borders of the Ohio river, opposite the mouth of the Scioto, where they were observed by Mr. Riddell, of Cincinnati. For accurately determining a number of the *Carices* contained in this supplement, we are indebted to Professor Dewey, of Pittsfield, Mass. who has made this difficult genus the object of his particular study.

Those species marked with the asterisk (*) are either new or have not been introduced into any of the systems of American Botany.

CATALOGUE, &c.

<i>Anagallis arvensis</i> ,	<i>Amaranthus hybridus</i> ,
<i>Actinomeris helianthoides</i> ,	<i>Arabis lævigata</i> ,
<i>Agrostis Virginica</i> ?	“ <i>hastata</i> ,
“ <i>vaginæflora</i> ,	“ <i>hirsuta</i> ,
“ <i>trichopodes</i> ,	“ <i>lyrata</i> ,
<i>Aletris farinosa</i> ,	<i>Ammi costatum</i> ,
<i>Alopecurus geniculatus</i> ,	<i>Aristida purpurascens</i> ,
<i>Amaranthus spinosus</i> ,	“ <i>gracilis</i> ,

Aristida dichotoma,	Carex tentaculata,
Artemisia Canadensis,	Ceratophyllum demersum,
Arum Virginicum,	Convallaria angustifolia,
Aspidium Noveboracense,	“ bifolia,
“ Goldianum,	Coreopsis verticillata,
“ angustum?	Croton ellipticum,
Asclepias purpurascens,	Cyperus erythrorhizos,
“ variegata,	Cornus paniculata,
Aster *amethystinus, Nutt.	“ asperifolia,
Astragalus Carolinianus,	“ alternifolia,
Atheropogon apludoides,	Convolvulus *micrantha, (1)
Boltonia asterioides?	Riddell,
Buchnera Americana,	Cratægus punctata,
Cannabis sativa,†	Delphinium azureum,
Carex oligocarpa,	Diarrhena Americana,
“ muricata, var. cephaloi-	Dicksonia pilosiuscula,
“ dea,	Digitaria glabra,
“ festucacea,	Draba hispidula,
“ straminea,	Dracæna umbellata,
“ squarrosa,	Elymus striatus,
“ Hitchcockiana,	“ Virginicus,
“ sparganoides,	Erigeron *amplexicaule, Tor.
“ milliacea,	Eryngium aquaticum,
“ retroflexa,	“ gracile,
“ virescens,	Eupatoreum serotinum,
“ pubescens,	“ album,
“ rosea, large and small	“ pubescens,
“ varieties,	“ ceanothifolium,
“ intumescens,	“ *Torreyanum, (2)
“ paleacea,	Short.
“ crinita,	“ maculatum,
“ laxiflora,	Euphorbia obtusata,
“ Davisii	“ depressa,
“ *Shortiana, Dew. & Tor.	“ dentata?
“ conoidea,	Ferula villosa,
“ *Stenolepsis, Torrey.	Festuca duriuscula,
“ cephalophora,	Galium lanceolatum,

<i>Galium tinctorium</i> ,	<i>Mentha piperita</i> ,
“ <i>pilosum</i> ,	“ <i>arvensis</i> ,
“ <i>trifidum</i> ,	<i>Mariscus echinatus</i> ,
<i>Gaura angustifolia</i> ,	<i>Melanthium Virginicum</i> ,
<i>Gentiana rubricaulis</i> ,	<i>Melissa officinalis</i>
<i>Gerardia glauca</i> ,	<i>Monarda mollis</i> ,
<i>Geranium pusillum</i> ,	<i>Myosotis palustris</i> ,
“ <i>Carolinianum</i> ,	<i>Myriophyllum scabratum</i> ,
<i>Hedysarum obtusum</i> ,	<i>Neottia cernua</i> ,
“ <i>canescens</i> ?	<i>Panicum hispidum</i> ,
<i>Habenaria fissa</i> ,	<i>Paspalum læve</i> ,
<i>Helianthus angustifolius</i> ,	<i>Parthenium integrifolium</i> ,
“ <i>divaricatus</i> ,	<i>Pennisetum glaucum</i> ,
<i>Helonias erythrorhizos</i> ,	“ <i>verticillatum</i> ,
<i>Hieracium marianum</i> ,	<i>Penstemon latifolium</i> ,
<i>Hydrophyllum</i> * <i>macrophyllum</i> ,	<i>Phlox acuminata</i> ,
(3) <i>Nutt.</i>	<i>Phyllanthus obovatus</i> ,
<i>Hypericum angulosum</i> ?	<i>Pontederia cordata</i> , var.
“ <i>nudiflorum</i> ,	“ <i>albiflora</i> , (8)
<i>Houstonia</i> ? (4)	<i>Poa nemoralis</i> ,
<i>Ixia Chinensis</i> , (5)	“ <i>dentata</i> ,
<i>Iris hexagona</i> ,	“ <i>rigida</i> ,
<i>Jeffersonia</i> * <i>lobata</i> , (6) <i>Nutt.</i>	<i>Polygala ambigua</i> ,
<i>Juncus polycephalus</i> ,	“ <i>cruciata</i> ,
“ <i>bulbosus</i> ,	<i>Polygonum mite</i> ,
“ <i>acuminatus</i> ,	“ <i>tenuë</i> ,
<i>Krigia Caroliniana</i> ,	<i>Potamogeton heterophyllum</i>
<i>Kuhnia eupatorioides</i> ,	“ <i>crispum</i> ?
<i>Lathyrus palustris</i> ,	“ <i>fluitans</i> ,
<i>Lespedeza polystachya</i> ,	<i>Polypodium dryopteris</i> ,
“ <i>repens</i> ,	<i>Prinos verticillatus</i> ,
“ <i>angustifolia</i> ,	<i>Pinus variabilis</i> , (9)
<i>Liatris scariosa</i> ,	<i>Potentilla Norwegica</i> ,
<i>Lilium Philadelphicum</i> .	<i>Prenanthes altissima</i> ,
<i>Ludwigia Jussieuoides</i> ,	“ <i>aspera</i> ,
“ * <i>polycarpa</i> , (7)	<i>Pycnanthemum pilosum</i> ,
<i>Lysimachia revoluta</i> ,	“ <i>muticum</i> ,

<i>Physalis angulata</i> ,	<i>Solidago tortifolia</i> ,
“ <i>lanceolata</i> ?	“ <i>glomerata</i> ,
<i>Rhododendron callendulaceum</i> ,	“ <i>ulmifolia</i> ,
<i>Rhus typhinum</i> , (9)	“ <i>arguta</i> ,
<i>Rhynchospora longirostris</i> ,	“ <i>recurvata</i> ,
<i>Rosa Carolina</i> ,	“ <i>procera</i> ?
“ <i>gemella</i> , (9)	“ <i>squarrosa</i> ,
<i>Rumex verticillatus</i> ,	“ others undetermined.
<i>Rubus obovalis</i> , (9)	<i>Sonchus acuminatus</i> ,
<i>Salix Muhlenbergiana</i> ,	“ <i>macrophyllus</i> ,
<i>Sagittaria graminifolia</i> ,	<i>Sparganium ramosum</i> ,
<i>Scirpus quadrangulatus</i> ,	<i>Stellaria palustris</i> ,
“ <i>lineatus</i> ,	<i>Symphitum officinale</i> , (11)
“ <i>subsquarrosus</i> ,	<i>Tanacetum vulgare</i> , (11)
<i>Scutellaria integrifolia</i> ,	<i>Thalictrum revolutum</i> ,
“ <i>pilosa</i> ,	<i>Thaspium barbinode</i> ,
“ <i>serrata</i> ,	“ <i>actæifolium</i> ;
“ <i>*hirsuta</i> , (10)	<i>Trichodium alatum</i> ,
<i>Silene antirrhina</i> ,	“ <i>scabrum</i> ;
<i>Silphium laciniatum</i> ,	<i>Trifolium arvense</i> ,
“ <i>trifoliatum</i> ,	<i>Trisetum purpurascens</i> ;
<i>Sium latifolium</i> ,	<i>Urtica gracilis</i> , <i>Raf.</i>
<i>Solidago *hirsuta</i> , <i>Nuttall</i> ,	“ <i>procera</i> ,
“ <i>elliptica</i> ,	<i>Veronica beccabunga</i> ,
“ <i>rigida</i> ,	<i>Vicia parviflora</i> ,
“ <i>gigantea</i> ,	<i>Villarsia lacunosa</i> ,
“ <i>altissima</i> ,	<i>Zizania aquatica</i> .

NOTES TO THE PRECEDING CATALOGUE.

(†) *Cannabis sativa*. The hemp has long been extensively cultivated in the "Elkhorn country" around Lexington, and the exuberant fertility of the soil of this district is admirably adapted to its culture. Owing to these circumstances it has become partially naturalized, and we have met with it in secluded situations, miles distant from any scene of cultivation.

(1) *Convolvulus micranthus*. For a description of this species, see "A synopsis of the Flora of the Western States. By John L. Riddell, A. M." (Cincinnati, O. 1835.) p. 70. "Closely allied to *C. lacunosus*, Spreng? perhaps only a variety of it."

(2) *Eupatoreum *Torreyanum*. Leaves ternate and opposite, sub-sessile, narrow-lanceolate, coarsely serrate, three nerved, punctate beneath, glabrous above.

Description: Stem solid, erect, striate, purplish, slightly pubescent below, becoming more so above, about two feet high; lower leaves by threes, narrow lanceolate on short petioles or mostly subsessile, with a few coarse serratures, and scabrous on the margin, three nerved and thickly sprinkled beneath with glandular dots; upper leaves opposite, or by threes, narrower and less serrate. At the axil of each leaf is a small branch with numerous small narrow entire leaves, all glandular-punctate. Flowering branches by threes and twos. Corymb nearly fastigiate. Involucrum 5-flowered, 8-10 leaved, exterior leaves small, acute, interior long, strap-shaped, pubescent and fringed at the summit. Seeds 5-angled smooth; pappus slightly scarious; pistil deeply cleft, the divisions revolute.

Found on dry sandstone knobs in the barrens of Kentucky, near the Mammoth Cave; flowering September 20th.

This species has some agreements with *E. parviflorum*, and perhaps still more with *E. amœnum*, but seems in some particulars to differ from both; from the last especially in not having the "coloured" leaves of the involucrum, nor the "purple or flesh-coloured flowers"—ours are a pure white. The name *trifoliatum*, or *ternifolium*, would be peculiarly appropriate for

this plant, inasmuch as all its leaves are constantly by threes; except occasionally one or two sets of opposite ones near the summit; these names, however, seem applied to very different species from the present; and we, therefore, venture to dedicate this handsomest of the genus to one who is deservedly placed at the head of American Botanists.

(3) *Hydrophyllum *macrophyllum*, Nutt. See Jour. Acad. Nat. Sciences, Phila. vol. vii. p. 111, 1834. Mr. Riddell, in the Synopsis above alluded to, has introduced this species under the name *H. hispidum*, which is entirely in consonance with its character; but as Mr. Nuttall's name is prior, it must be adopted.

(4) *Houstonia* ? This plant has always been considered by us the *H. longifolia*, Willd. and numerous correspondents to whom we have sent it under that name, have received and acknowledged it as such. Among these, Professor Hooker, in remarking on it as *H. longifolia*, says "it is exactly what I have so called in the Botanical Magazine, No. 3099." That figure, however, plainly refers to *H. ciliolata*—a plant profusely abundant on the denuded hills around the Blue-licks, in this state, and the knobs back of New-Albany, Indiana; whereas our present species has occurred to us only among the rich debris of the limestone cliffs bordering the Kentucky river; where, rooting deeply in the fissures of the rock, it forms dense clumps of considerable magnitude, with numerous semo-prostrate stems a foot long.

Unless, therefore, luxuriance of growth has given to it an aspect very different from that of specimens which we have received from other portions of the Union, as *H. longifolia*, we are inclined to consider our species distinct, but without more thorough investigation we do not pronounce it so.

(5) *Ixia Chinensis*. This pretty exotic now so generally met with in our gardens under the name of "black-berry lilly," is becoming abundantly naturalized in this state. In the western part of it, we observed, last autumn, one locality especially, where it had spread from a garden to a considerable distance both into the adjoining barrens and timbered land.

(6) *Jeffersonia *lobata*, Nutt. Acad. Nat. Sc. Phila. vol. vii, p. 99. This is assuredly only a variety of *J. diphylla*. We have met with them both growing in the same spot, and passing into each other by insensible gradations.

(7) *Ludwigia *polycarpa*. Erect, much branched; leaves narrow-lanceolate, acute at each end, alternate, glabrous; flowers apetalous? closely sessile, axillary and congregated; capsules spherical, two-leaved.

Description: Stem erect, 1 to 3 feet high, angled and very branching, branches of irregular length and irregularly disposed. Leaves narrow-lanceolate and very acute, alternate, sub-sessile, glabrous on both surfaces and scabrous on the margin; the lower ones 4 inches long by $\frac{1}{2}$ inch wide, diminishing upwards. Flowers apetalous? axillary and closely sessile, generally solitary, but frequently collected in confused heads on the main stem, or smaller branches; capsules spherical, slightly angled, with two small, narrow, lanceolate, serrulate leaves seated on it, near the base; leaves of the calyx shorter than the capsule.

Discovered by Mr. H. A. Griswold in the wet lands around Louisville, where it occurs in great abundance, flowering from ——— to October. This species certainly bears considerable affinity to the *L. mollis* as described by Elliott, but it differs from that in being altogether destitute of the characteristic villosity, and in having an angled stem. We have therefore given it a name from the profusion of its capsules—a greater profusion by far than is borne by any other species within our knowledge.

(8) *Pontederia cordata*, var. **albiflora*. Our friend and fellow-labourer, Mr. Griswold, pointed out this variety to us in a pond near Louisville. It there occurred in company with the common blue or purple flowered species, from which it seems to differ only in the colour of its flowers, which is a pure white, with a slight tinge of pink.

(9) *Pinus variabilis*, *Rhus typhinum*, *Rosa gemella*, &c. These species have not been met with by ourselves, within the limits of this state: they are introduced into this Catalogue on the au-

thority of Mr. Riddell, who reports to us his having found them on the Kentucky side of the Ohio river, opposite to the mouth of the Scioto river.

(10) *Scutellaria *hirsuta*. Stem erect, simple, sparingly branched, hirsute; leaves petioled broad-ovate, crenate, obtuse, hirsute; bractes ovate, ciliate; calyx hairy.

Description: Stem erect, stout from 1 to 2 feet high, quadrangular and grooved between the angles, with a few opposite branches towards the summit, the whole thickly beset with a hirsute pubescence standing out at right-angles from the stem: leaves few and large; the lower ones sub-cordate, on petioles of some length; the upper broad-ovate attenuated into petioles which become shorter upward, all obtuse and coarsely crenate, covered on the upper surface and the veins beneath with stiff hairs. Floral leaves entire, broad-oval, nearly round, pubescent, ciliate, longer than the calyx which is very hairy, especially the upper lip. Flowers not seen.

This species approaches nearest to the *S. pilosa* but is altogether a more stout and hirsute plant. They differ also in the form of their leaves and bractes.

Discovered by Mr. H.A. Griswold on the borders of marshes around Louisville, Ky. Unfortunately the flowers had passed before it was met with.

(11) *Symphitum officinale*—*Tanacetum vulgare*. These two exotics having passed the confines of cultivation, are becoming naturalized. We have met with them both in situations remote from settlements.